



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of						
Applicant: Serial No.: Filed: For: Art Unit: Examiner:	Renato Barrera, et al. 10/803,443 March 18, 2004 Query Optimizer Using Implied Predicates 2171 Unknown					
	Information Disclosure Statement					
	issioner for Patents inia 22313-1450					
Sir:						
patents, publicati except for: (a) po upon which this a	to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the ons and other information listed on the attached PTO-1449. A copy of each listed document is enclosed ending applications or (b) those previously cited or submitted to the Office in the following application(s) application relies for an earlier filing date under 35 U.S.C. 120; or (c) U.S. Patent(s) and published nce the subject application was filed after June 30, 2003.					
Serial No.: Filing Date:						
Applicant(s) beli	ocument, publication or other information for which a date is not given on the attached PTO-1449, eve(s) the same may qualify as "prior" art to this application and should be treated accordingly, although reve(s) the right to contest the prior art status of any document, publication or information, should issue arise.					
	g each listed document that is not in the English language, an English-language translation accompanies this cated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the ent(s):					
(a)Co	opy of each English language version of a search report indicating the degree of relevance found by the foreign office of each document being submitted from the search report.					
(b)At	tachment entitled "Concise Explanation of Relevance of Non-English Language Documents".					
3. Pursuant	to 37 C.F.R. 1.97(b) this Statement is being filed (one must be checked):					
(a) <u>X</u>	Within 3 months of the filing date or date of entry into the National Stage.					
(b)	Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 50-1063 for consideration of this Statement.					

	(c) After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance.
	(1) The required certification is given below, or
	(2) Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement, or
	(3) Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 50-1063.
	(d)After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee. Petition hereby is made for consideration of this Statement and the required certification is indicated below.
	(1) Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(i)(1), or
	(2) Charge the fee set forth in 37 C.F.R. 1.17(i)(1) to Deposit Account No. 50-1063.
4.	Certification (if applicable)
	(a) The undersigned hereby certifies that each item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Statement.
	(b)The undersigned hereby certifies that no item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the undersigned's knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Statement.
5.	The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-1063.

Respectfully Submitted,

Jeffrey R. Sadlowsk

Reg. No. 47,914

24TH Floor, National City Center 1900 East 9th Street Cleveland, Ohio 44114 (216) 696-8730

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence (along with any paper referenced as being attached or enclosed) is being deposited on the below date with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Assistant Commissioner for Patents, Alexandria, Virginia 22313-1450

Date: 6-17-2004

Jeffrey R. Sadlowski

PTO/SB/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449/PTO

ETATE TRADE

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of

Complete II Known				
Application Number	10/803,443			
Filing Date	March 18, 2004			
First Named Inventor	Renato Barrera			
Art Unit	2171			
Examiner Name	Unknown			
Attorney Docket Number	MS301563 1/MSETP576US			

			U. S. PATENT	DOCUMENTS		
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	Number-Kind Code ^{2 (# known)} US- 5301317		04.05.4004	t obman of al	- Garage Appear	
	ļ		04-05-1994	Lohman, et al.		
	<u> </u>	^{US-} 5,551,027	08-27-1996	Choy, et al.		
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		US-				
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	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages				
	Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶				

Examiner	Date	
Signature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO				Complete if Known			
		_		Application Number	10/803,443		
INF	ORMATIC	N DIS	CLOSURE	Filing Date	March 18, 2004		
STATEMENT BY APPLICANT				First Named Inventor	Renato Barrera		
	(Use as many	sheets as ne	acessarv)	Art Unit	2171		
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Sheet	2	of	2	Attorney Docket Number	MS301563.1/MSFTP576US		

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²			
		S. SHEKHAR, B. HAMIDZAHEH, A. KOHLI, and M. COYLE. Learning transformation rules for semantic query optimization: A data-driven approach. IEEE Transactions on Knowledge and Data Engineering, Vol. 5, No. 6, 1993. 29 pages.				
		S. CHAUDHURI. An overview of query optimization in relational systems. In Proceedings of ACM PODS Conference, pp. 34-43, 1998.				
		P. ROY, S. SESHADRI, S. SUDARSHAN, and S. BHOBE. Efficient and extensible algorithms for multi query optimization. In Proc. of ACM SIGMOD, pp.249-260, 2000.				
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Examiner	D	ate	
Signature	Co	onsidered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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